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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,795	11/21/2003	Robert R. Wood	HO-P02901US1	2945
26271 FULBRIGHT 6	7590 03/12/2007 & JAWORSKI, LLP	·	EXAMINER	
1301 MCKINNEY SUITE 5100 HOUSTON, TX 77010-3095			ZIMMER, MARC S	
			ART UNIT	PAPER NUMBER
,			1712	
		P. I		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	03/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/719,795	WOOD, ROBERT R.			
Office Action Summary	Examiner	Art Unit			
<u> </u>	Marc S. Zimmer	1712			
The MAILING DATE of this communication app	pears on the cover sheet with the	correspondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti vill apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 07 Fe	ehruani 2007				
·	· —				
closed in accordance with the practice under E					
Disposition of Claims					
	_				
4) Claim(s) <u>14-16</u> is/are pending in the application		·			
4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed.	will from consideration.				
· · · · · · · · · · · · · · · · · · ·					
6)⊠ Claim(s) <u>14-16</u> is/are rejected. 7)□ Claim(s) is/are objected to.					
	r cloation to accirom ant				
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	ojected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents					
2. Certified copies of the priority documents					
3. Copies of the certified copies of the prior		ed in this National Stage			
application from the International Bureau	· · · · · · · · · · · · · · · · · · ·				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachment(s)	·				
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal I				
Paper No(s)/Mail Date	6) Other:	••			

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Cart, U.S. patent # 6,806,232.

It is Applicant's position that Cart fails to teach the claimed method because, whereas the present claims require that the crumb rubber particles of which the drilling fluid is comprised seal the areas in a formation where fluid loss occurs by swelling to a size that fills the cracks and voids, Cart instead discloses compressing the particles, (there being an implication by Applicant that the act of compressing reduces them in size) during the introduction of the fluid into the formation and the particles are only returned to their original size upon entering the cracks and voids because the walls of the cracks and voids would prohibit further expansion.

The Examiner acknowledges that the approach employed by Cart involves pumping the fluid containing the crumb rubber into the formation using pressure and that the employment of pressure "deforms the particles" to use the words of Cart (column 5, lines 26-40). The particles are restored to their non-deformed shape and are trapped by the formation upon removal of the pressure source that was used to introduce them into the cracks/voids. However, the Examiner disputes the notion that any further expansion of the particles upon returning to their original shape is absolutely

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prevented by the walls of the crack. It is the Examiner's position that the method (pressure) employed to pack the crumb rubber into cracks and crevices is incapable of providing a perfectly packed assemblage of particles and that there would still be room for at least some expansion particularly since the rubber particles, themselves, are not shaped to provide a fully complimentary surface for the particles around them. (It is convenient to depict the particles as perfectly spherical with the ability to acquire an optimal packing orientation but the skilled artisan will recognize that this is not a reality.) Expansion would, of course, inherently take place in that portion of the packed particles that are exposed to hydrocarbon as swelling is an intrinsic behavior exhibited by rubbers when exposed to some liquids.

Claim 15 limits claim 14 in the same manner as cancelled claim 6 had limited cancelled claim 1 and is, therefore, rejected under the same rationale.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc S. Zimmer whose telephone number is 571-272-1096. The examiner can normally be reached on Monday-Friday 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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March 7, 2007

MARC S. ZIMMER PRIMARY EXAMINER